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(54) COMPRESSION METHOD AND DEVICE,
COMPRESSION AND EXPANSION SYSTEM, AND
RECORDING MEDIUM

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(57) Abstract:

PROBLEM TO BE SOLVED: To decrease the processing time by simplifying signal compression and expansion and to simplify the configuration to realize it.

SOLUTION: A compressor side applies over-sampling to digital data with a fundamental waveform in response to a value of received n-sets of discrete data, after obtaining a digital interpolation value with respect to the discrete data by synthesizing n-sets of over-sampled data by means of a moving average arithmetic operation or a convolution arithmetic operation, the obtained digital interpolation value is sampled at a time interval equivalent to a point at which the absolute value of its derivative is minimized, a set of discrete amplitude data at each sampling point and timing data denoting a time interval between the sampling points is obtained as compression data so that the signal remaining on a time base can be processed without the need for frequency conversion when the signal on the time base is compressed.

